

Date: Tue, 2 Nov 93 04:30:18 PST  
From: Ham-Ant Mailing List and Newsgroup <ham-ant@ucsd.edu>  
Errors-To: Ham-Ant-Errors@UCSD.Edu  
Reply-To: Ham-Ant@UCSD.Edu  
Precedence: Bulk  
Subject: Ham-Ant Digest V93 #97  
To: Ham-Ant

Ham-Ant Digest                      Tue, 2 Nov 93                      Volume 93 : Issue    97

Today's Topics:

                    Antenna analysis program  
                    Antenna Wire 'Rope'?  
            Archery Advice for Antenna Raising (2 msgs)  
                    Diamond X-500 Problem (2 msgs)  
                    Dimensions needed for R5 Vertical  
                    Hygain TH5 Antenna  
                    RFI Indoor Antennas  
                    Wire Size question

Send Replies or notes for publication to: <Ham-Ant@UCSD.Edu>  
Send subscription requests to: <Ham-Ant-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Ant Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-ant".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: 1 Nov 93 18:39:44 GMT  
From: ogicse!cs.uoregon.edu!news.uoregon.edu!netnews.nwnet.net!saturn.www.edu!  
hal221.www.edu!billjo@network.ucsd.edu  
Subject: Antenna analysis program  
To: ham-ant@ucsd.edu

Hi!

I'm working on simulating an interesting design for an antenna using  
twin lead, but I need a field pattern simulator which will handle dielectrics (  
i.e. the insulator separating the wires in the twin lead). I have a  
simulator called NEC (numerical electromagnetics code) from Lawrence  
Livermore, but it doesn't explicitly handle dielectrics.

If anyone has, or knows where I could get, or knows anyone who knows  
where I could get, such a peice of software, I would be grateful for the tip.

Thanks!  
Greg Billock  
billjo@wwc.edu

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Date: 1 Nov 1993 15:16:47 GMT  
From: elroy.jpl.nasa.gov!usc!howland.reston.ans.net!vixen.cso.uiuc.edu!  
bradley.bradley.edu!augustana.edu!gganderson@ames.arpa  
Subject: Antenna Wire 'Rope'?  
To: ham-ant@ucsd.edu

I've seen advertisements for this 14ga wire 'rope' for  
antennas, supposedly stronger than CopperWeld and something  
you can just tie to the insulators (I assume one still wants  
to solder).

How good is it? What acceleration factor applies so one  
knows how to adjust length estimates?

Thanks.

73 de Kevin, KB9IUA  
\*\*\*\*\*  
Kevin L. Anderson, Geography Dept., Augustana College  
Rock Island, Illinois 61201 USA phone: (309) 794-7325  
e-mail: gganderson@augustana.edu or kla@helios.augustana.edu  
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Date: 2 Nov 93 00:06:29 GMT  
From: ogicse!news.tek.com!tekgen!brucec@network.ucsd.edu  
Subject: Archery Advice for Antenna Raising  
To: ham-ant@ucsd.edu

I am about to put some rope through the trees using an arrow  
with fish line attached to it. Anyone have any advice about  
bows, arrows, archery for this purpose, attaching fish line,  
paying the fish line out, etc ?

If you do, I would appreciate hearing about it !!

Bruce Cheney  
NI7M  
QTH: Sherwood, OR

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Date: 2 Nov 93 02:30:26 GMT  
From: ogicse!uwm.edu!spool.mu.edu!umn.edu!csus.edu!netcom.com!  
fmitch@network.ucsd.edu  
Subject: Archery Advice for Antenna Raising  
To: ham-ant@ucsd.edu

Bruce Cheney (bruce@tekgen.bv.tek.com) wrote:

: I am about to put some rope through the trees using an arrow  
: with fish line attached to it. Anyone have any advice about  
: bows, arrows, archery for this purpose, attaching fish line,  
: paying the fish line out, etc ?

: If you do, I would appreciate hearing about it !!

: Bruce Cheney  
: NI7M  
: QTH: Sherwood, OR

i have found slingshots to work great and they are cheap... just  
buy a good slingshot, some 20-30 lb monofilament fishing line and  
a couple of 1 oz fishing sinkers, the kind with the swivel attached...  
plus, some nylon string... you can put sinker with the monofilament  
attached over the top of the tallest tree!!! then attach the string,  
and pull the string over the tree... the string is strong enough to  
pull rope, wire, etc whatever you are going to use to anchor the  
end of the antenna with... i have my dipole ends up about 80 ft  
using pine trees as the anchors...

good luck

mitch, wa4osr  
fmitch@netcom.com

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fmitch@netcom.com  
Felton "Mitch" Mitchell, WA4OSR in Mobile, Alabama USA  
205-342-7259 home, 205-476-4100 work, 205-476-0465 FAX  
co-sysop for W4IAX bbs running fbb ... sysop for WA4OSR DXCluster in Mobile..  
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Date: Mon, 01 Nov 93 06:02:02 CST  
From: dog.ee.lbl.gov!agate!iat.holonet.net!vulcan!kd4cim@network.ucsd.edu  
Subject: Diamond X-500 Problem

To: ham-ant@ucsd.edu

I have been using a Diamond X-500 dual-bander for a couple of years and suddenly this week the SWR shot through the roof. The SWR would waver but remained about 4:1. All the symptoms of bad feedline (water?). Up we go with new feedline, new N-connectors - same problem.

After getting the antenna down, the high SWR was still there. Checking it over, I can't find any shorts or bad connection points. The problem is that I don't really understand the theory of this antenna (multiple co-linear - I think). Any hints as to what to check for would be appreciated (so I can get back on 440).

Thanks -

de Jerry

BHM AmprNet - kd4cim@kd4cim.ampr.org [44.100.113.19]  
Packet Radio - KD4CIM @ KD4CIM.AL.USA.NA  
Internet - kd4cim@vulcan.com

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Date: 1 Nov 1993 19:45:38 GMT  
From: elroy.jpl.nasa.gov!sdd.hp.com!hpscit.sc.hp.com!icon.rose.hp.com!  
hpchase.rose.hp.com!eric@ames.arpa  
Subject: Diamond X-500 Problem  
To: ham-ant@ucsd.edu

Jerry Pruett - KD4CIM (kd4cim@vulcan.com) wrote:

: I have been using a Diamond X-500 dual-bander for a couple of years  
: and suddenly this week the SWR shot through the roof. The SWR would  
: waver but remained about 4:1. All the symptoms of bad feedline  
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: Checking it over, I can't find any shorts or bad connection points.  
: The problem is that I don't really understand the theory of this  
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: check for would be appreciated (so I can get back on 440).

: Thanks -

: de Jerry

: BHM AmprNet - kd4cim@kd4cim.ampr.org [44.100.113.19]

: Packet Radio - KD4CIM @ KD4CIM.AL.USA.NA  
: Internet - kd4cim@vulcan.com

Jerry,

It's funny you should talk about a problem with your X-500. I too had a similar problem a couple of years ago. I installed my antenna up in the spring and it worked fine (no SWR) all summer. About December I started having a problem with high SWR. I too replaced the feed line but it didn't help. After I took the antenna down and disassembled it I found the problem. I has a 17' hose. The antenna had asorbed water and was soaking wet inside. I then got in contact w/ RF PARTS and talked to them about the problem I shipped it back to them where they checked it out for any damage to the componets. They informed me that the gasket that is used to assemble the sections had gotten damaged in assembly and water had found it's way in. I would recomend taking it apart and checking for water inside. Also the foam blocks used in keeping the element from banging against the sides will also soak up water so be sure to completely disassemble the unit. You can remove the lower fiberglass section from the base by using the "armstrong" method. Check for any corrosion that has started and clean it up. As an added safety measure I soldered all the connections within the antenna. It's been up 2 wet years since I did the repair and no trouble yet. I would call RF PARTS for any help or recmondations. They were very helpful.

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>>>> "There's more ways to skin a cat than stickin' his head in a boot <<<<  
>>>> jack and jerkin' on his tail", Texas Bix Bender <<<<

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|
| Eric Struble           Landline: 916.785.8288
| CPO Engineering       Internet: eric@terrapin.rose.hp.com|
| Support Materials Org. hp-Snail: MS R10-0L
| Hewlett-Packard       RF: N6PYF 146.745- (N6PYF/R)
| U.S.A.                AX.25: N6PYF@WA6NWE.#NOCAL.CA.USA
|
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Date: 1 Nov 93 14:03:55 GMT

From: sdd.hp.com!think.com!parish@hplabs.hp.com  
Subject: Dimensions needed for R5 Vertical  
To: ham-ant@ucsd.edu

This weekend I put up my R5 vertical that has been in virtual storage for a couple of years. I forgot to mark the main tube sections as to where they should be clamped and I can't find the manual. Does anyone have a manual or know the suggested dimensions of the main sections of the antenna?

Replies to me at parish@think.com directly, since I don't read news that often.

73 Ed WA2SCA

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Date: 1 Nov 93 14:55:10 GMT  
From: sdd.hp.com!col.hp.com!fc.hp.com!jayk@hplabs.hp.com  
Subject: Hygain TH5 Antenna  
To: ham-ant@ucsd.edu

Doug Snowden (drs@ccd.harris.com) wrote:  
: Is the TH5 just a modern TH3 with 2 more elements? Ive seen pictures of  
: it, and it looks like it is fed the same way. I used to have a TH3 and  
: loved it.  
: Doug, N4IJ

If memory serves me correctly the TH5 has dual driven elements to make it broadband. The boom is also a bit longer and the other extra element is a 10 meter monoband element (reflector I think).

73, Jay K0GU

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Date: 1 Nov 1993 15:28:03 GMT  
From: haven.umd.edu!darwin.sura.net!newsserver.jvnc.net!newsserver.usl.com!netnews.usl.com!sflow!low@ames.arpa  
Subject: RFI Indoor Antennas  
To: ham-ant@ucsd.edu

Hello!!

I am new to this news group and having just started in swl, I have a question on what type of antenna would be best suited for the receiver I currently have.

I purchased a Sony ICF-2010 with the standard features. I am willing

to try to build an antenna or would it be cheaper to buy one from a reputable dealer. Which is preferred an active or passive antenna.

As you can tell I am a neophyte when it come to this. Also I have plenty of room to string an antenna in my attic.

I appreciate any and all responses.

Lowell  
low@usl.com

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Date: 1 Nov 93 17:28:17 GMT  
From: ogicse!emory!rsiatl!ke4zv!gary@network.ucsd.edu  
Subject: Wire Size question  
To: ham-ant@ucsd.edu

In article <1993Oct31.011053.1@aurora.alaska.edu> fsrla@aurora.alaska.edu writes:

>In the 1982 ARRL Antenna book htthere(  
>is a 2 element quad antenna for 2Meters  
>on page 11-13 (it may be in new editions  
>but this is nthe most recent our Library  
>has.)  
>My question is this: It calls for #8  
>aluminum wire but the only wire that  
>is aluminum I can find here in town is #9.  
>Will this change anything? What would I have  
>to do to correct for this size wire? Should, or  
>should it not be insulateed (the stuff I found had  
>a thin green plastic on it.)

The one gauge wire size change isn't particularly relevant, but the insulation will change the electrical length of the wire by the difference in dielectric constant of the insulation versus air. This is likely to only be a few percent change that can be compensated during tuning. When you substitute components, you should expect to have to do a bit of adjusting to meet performance specs. In fact if you follow directions slavishly, you'll \*still\* likely have to make some small adjustments, so don't worry about it. Use what you can get, and tune it to resonance by adjusting lengths and spacing.

Gary

--

Gary Coffman KE4ZV | "If 10% is good enough | gatech!wa4mei!ke4zv!gary  
Destructive Testing Systems | for Jesus, it's good | uunet!rsiatl!ke4zv!gary  
534 Shannon Way | enough for Uncle Sam." | emory!kd4nc!ke4zv!gary  
Lawrenceville, GA 30244 | -Ray Stevens |

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Date: 1 Nov 1993 19:52:19 GMT  
From: korie1!newscast.West.Sun.COM!abyss.West.Sun.COM!sunspot!myers@ames.arp  
To: ham-ant@ucsd.edu

References <1993Oct27.193056.17175@btree.uucp>, <2amonrINN88j@abyss.West.Sun.COM>,  
<1993Oct30.231814.2246@ualr.edu>  
Subject : Re: J-Pole lobe (radiation pattern)

In article <1993Oct30.231814.2246@ualr.edu> gdm@eieio.ualr.edu (G. Douglas Mauldin) writes:

>Dana Myers (myers@cypress.West.Sun.COM) wrote:

>

>: \* This Extra supports the abolition of the 13 and 20 WPM tests \*

>

> Oh yeah? Well, \_this\_ Extra thinks that \_that\_ Extra is full of baloney!

>[And that's all I have to say in the matter. Further code vs. nocode

>debate is not invited and will be redirected to the bit-bucket.]

What a wimp. Says I'm full of baloney and then says he'll throw away  
any responses. Wimp, wimp, wimp. :-)

> 73 and good luck in the contest.

Gosh, I didn't know Usenet was a contest. But, what would you expect from  
someone who says "this is my opinion and don't bother disagreeing" ?

: -)

Dana

--

\* Dana H. Myers KK6JQ, DoD 466 | Views expressed here are \*  
\* (310) 348-6043 | mine and do not necessarily \*  
\* Dana.Myers@West.Sun.Com | reflect those of my employer \*  
\* This Extra supports the abolition of the 13 and 20 WPM tests \*

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End of Ham-Ant Digest V93 #97

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